

Amendment and Response

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Serial No.: 09/529,691

Confirmation No.: 3203

Filed: August 29, 2000

For: INHIBITION OF TUMOR CELL ADHESION TO TYPE IV COLLAGEN**In the Claims**

Please cancel claims 22-31, amend claims 4, 6-8, 14, 16-18, and 32, and add new claims 33-44. The new and amended claims are provided below in clean form. Per 37 C.F.R. §1.121, new and amended claims are also shown in Appendix A with notations to indicate changes made (for convenience, all pending claims, including those added hereby, are provided in Appendix A).

F3 4. (AMENDED) A polypeptide consisting of the sequence gly-val-lys-gly-asp-lys-gly-asn-pro-gly-trp-pro-gly-ala-pro, which is in the all D-form.

6. (AMENDED) The polypeptide of claim 4 which inhibits binding of melanoma tumor cells to type IV collagen.

F4 7. (AMENDED) The polypeptide of claim 4 which inhibits melanoma tumor cell invasion into basement membranes.

8. (AMENDED) The polypeptide of claim 4 which inhibits melanoma tumor cell metastasis.

F5 14. (AMENDED) A peptide-conjugate comprising a polypeptide having the sequence gly-val-lys-gly-asp-lys-gly-asn-pro-gly-trp-pro-gly-ala-pro, which is in the all D-form, wherein the polypeptide is bonded to a non-peptide moiety.

F6 16. (AMENDED) A method of inhibiting melanoma tumor cell binding to type IV collagen comprising contacting the melanoma tumor cell with the polypeptide of claim 4 in an amount effective to inhibit melanoma tumor cell binding to type IV collagen.

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17. (AMENDED) A method of inhibiting melanoma tumor cell invasion of a basement membrane comprising modulating the melanoma tumor cell with the polypeptide of claim 4 in an amount effective to inhibit melanoma tumor cell invasion of a basement membrane.

18. (AMENDED) A method of inhibiting melanoma tumor cell metastasis comprising modulating the melanoma tumor cell with the polypeptide of claim 4 in an amount effective to inhibit melanoma tumor cell metastasis.

F7

32. (AMENDED) A peptide-conjugate comprising a polypeptide having the sequence gly-val-lys-gly-asp-lys-gly-asn-pro-gly-trp-pro-gly-ala-pro (SEQ ID NO: 1), which is in the all L-form, wherein the polypeptide is bonded to a non-peptide moiety selected from the group consisting of an organic group having a C₆-C₁₈ alkyl chain, a DNA intercalator, a metal chelator, an alkylating agent, and a membrane-disrupting agent.

F8

33. (NEW) A method of inhibiting melanoma tumor cell binding to type IV collagen comprising contacting the melanoma tumor cell with a peptide conjugate of claim 14 in an amount effective to inhibit melanoma tumor cell binding to type IV collagen.

34. (NEW) A method of inhibiting melanoma tumor cell invasion of a basement membrane comprising modulating the melanoma tumor cell with a peptide conjugate of claim 14 in an amount effective to inhibit melanoma tumor cell invasion of a basement membrane.

35. (NEW) A method of inhibiting melanoma tumor cell metastasis comprising modulating the melanoma tumor cell with a peptide conjugate of claim 14 in an amount effective to inhibit melanoma tumor cell metastasis.

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36. (NEW) The method of claim 33 which is carried out *in vivo*.

37. (NEW) The method of claim 34 which is carried out *in vivo*.

38. (NEW) The method of claim 35 which is carried out *in vivo*.

39. (NEW) A method of inhibiting melanoma tumor cell binding to type IV collagen comprising contacting the melanoma tumor cell with a peptide conjugate of claim 32 in an amount effective to inhibit melanoma tumor cell binding to type IV collagen.

40. (NEW) A method of inhibiting melanoma tumor cell invasion of a basement membrane comprising modulating the melanoma tumor cell with a peptide conjugate of claim 32 in an amount effective to inhibit melanoma tumor cell invasion of a basement membrane.

41. (NEW) A method of inhibiting melanoma tumor cell metastasis comprising modulating the melanoma tumor cell with a peptide conjugate of claim 32 in an amount effective to inhibit melanoma tumor cell metastasis.

42. (NEW) The method of claim 39 which is carried out *in vivo*.

43. (NEW) The method of claim 40 which is carried out *in vivo*.

44. (NEW) The method of claim 41 which is carried out *in vivo*.